

# Kwanyoung Park

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🌐 <https://github.com/kwanyoungpark>

## EDUCATION

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### Seoul National University

B.S. in Computer Science & Engineering

B.S. in Mathematical Sciences (Minor)

\* Leave of absence for military service: July 2021 - Jan 2023

Mar '19 - Present

GPA: 3.97 / 4.3

### Stanford University

Visiting student

Jun '23 - Aug '23

GPA: 4.0 / 4.0

### Gyeonggi Science High School

High school for gifted students in science and mathematics

Mar '16 - Feb '19

## RESEARCH INTERESTS

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- Offline reinforcement learning
- Unsupervised reinforcement learning
- Robot learning
- Machine learning

## PUBLICATIONS AND PREPRINTS (\* denotes equal contribution.)

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1. **Kwanyoung Park**, Youngwoon Lee  
*Tackling Long-Horizon Tasks with Model-based Offline Reinforcement Learning*  
Preprint, 2024 (submitted to **NeurIPS, 2024**)
2. Junik Bae, **Kwanyoung Park**, Youngwoon Lee  
*TLDR: Unsupervised Goal-Conditioned RL via Temporal Distance-Aware Representations*  
Conference on Robot Learning (**CoRL**), 2024
3. **Kwanyoung Park\***, Hyunseok Oh\*, Youngki Lee  
*VECA: A New Benchmark and Toolkit for General Cognitive Development*  
AAAI Conference on Artificial Intelligence (**AAAI**), 2022  
**(Oral presentation, Acceptance Rate: 384/9,251 = 4.15%)**
4. Junseok Park, **Kwanyoung Park**, Hyunseok Oh, Ganghun Lee, Minsu Lee, Youngki Lee, Byoung-Tak Zhang  
*Toddler-Guidance Learning: Impacts of Critical Period on Multimodal AI Agents*  
ACM International Conference on Multimodal Interaction (**ICMI**), 2021  
**(Oral presentation)**
5. **Kwanyoung Park**, Junseok Park, Hyunseok Oh, Byoung-Tak Zhang, Youngki Lee  
*Learning Task-agnostic Representation via Toddler-inspired Learning*  
**NeurIPS 2020 Workshop on BabyMind, 2020**

## SCHOLARSHIPS

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- Presidential Science Scholarship** Mar '19 - Present
- Korea Student Aid Foundation (KOSAF)
  - Full tuition, living expenses support for undergraduate studies.
- Gyeonggi-do Special Scholarship (Science Technology)** Mar '16 - Feb '19
- Gyeonggi-do
  - Full-ride scholarship

## AWARDS

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- 2023 | **Special Award**, MAICON 2023 (Military AI Competition)
- 2022 | **Special Award**, MAICON 2022 (Military AI Competition)
- 2018 | **Honorable Mention**, IMMC (International Mathematical Modeling Challenge)
- 2018 | **Bronze Prize**, Samsung Humantech Paper Award (Advisor: Hyunju Ju)  
| *Modeling a Remora-Inspired Sucker Structure for Ship Flood Prevention Pads*
- 2015 | **1st place**, KOI (Korea Olympiad in Informatics)

## EXPERIENCE

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- Yonsei RL Lab** Jan '24 - Present
- *Undergraduate Research Intern* (Advisor: [Youngwoon Lee](#))
- Researching on offline model-based reinforcement learning algorithms that can tackle long-horizon tasks [1].
  - Participated in research on a goal-conditioned unsupervised RL algorithm that utilizes temporal distances [2].
- SNU Human-Centered Computer Systems Lab** Feb '23 - Dec '23
- *Undergraduate Research Intern* (Advisor: [Youngki Lee](#))
- Researched on a NeRF model architecture (with Gaussian Splatting) that can reduce network consumption for on-device applications.
- Ministry of National Defense** Jul '21 - Jan '23
- *Research Engineer (Military Service)*
- Worked as main developer of an NLP project
  - Trained a BERT-based model for Korean language and fine-tuned it for sentence generation.
- SNU Human-Centered Computer Systems Lab** Jun '19 - Jun '21
- *Undergraduate Research Intern* (Advisor: [Youngki Lee](#))
- Developed VECA, which is the first benchmark to assess the overall cognitive development of an AI agent, including a toolkit to generate diverse and distinct cognitive tasks [3].
  - Researched the impact of guidance (e.g. offline trajectory, dense rewards) during reinforcement learning and its performance on transfer learning [4].
  - Developed a representation learning algorithm based on the agents interaction using VECA [5].

## SKILLS

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### **Programming Language**

- C, C++, Python (Pytorch, Tensorflow, Jax), C# (Unity), Java

### **Machine Learning**

- Reinforcement learning, Vision, 3D geometry (NeRF), NLP

### **Languages**

- Korean: Native
- English: Proficient (GRE: 163/170 (Verbal), 169/170 (Quant), 4.5/6.0 (Writing))
- Japanese: Proficient (JLPT N1: 168/180)